## Amendments to the Claims

This listing of claims will replace all prior versions:

1. (currently amended) An oligoribonucleotide <u>consisting</u> of from 21 to 30 23 nucleotides comprising:

a contiguous sequence of SEQ ID NO:1 or a sequence which has one-base mismatch with SEQ ID NO:1,

wherein the ribose residue of at least one nucleotide is protected at the 2'-O- position by 2, 4-dinitrophenyl (DNP) and wherein the oligoribonucleotide is capable of down-regulating the expression of the  $RI_{\alpha}$  subunit of protein kinase A.

## 2.-3. (canceled)

- 4. (currently amended) The oligoribonucleotide of claim 3, wherein the oligoribonucleotide consists of a sequence is selected from the group consisting of SEQ ID NO:1, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19 and SEQ ID NO:22.
- 5. (Original) The oligoribonucleotide of claim 4, wherein the oligoribonucleotide is SEQ ID NO:1.
- 6. (currently amended) The oligoribonucleotide of claim 1, wherein the one-base mismatch consists of a sequence is selected from the group consisting of SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18 and SEQ ID NO:19.
- 7. (Original) The oligoribonucleotide of claim 1, wherein the DNP to nucleotide molar ratio is between 0.5 to 0.8

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8. (Original) The oligoribonucleotide of claim 7, wherein the DNP to nucleotide molar ratio is between 0.65 to 0.75.

- 9. (Original) A composition comprising the oligoribonucleotide of claim 1.
- 10. (Original) The composition of claim 9, further a comprising a complementary strand to the oligoribonucleotide.
- 11. (Original) The composition of claim 9 further comprising a pharmaceutically acceptable carrier.
- 12. (Original) The composition of claim 11, further comprising a chemotherapeutic agent.
- 13. (Original) The composition of claim 9, wherein the oligoribonucleotide has a sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:22 and combinations thereof.
- 14. (currently amended) The composition of claim 13, wherein the oligoribonucleotide <u>consists</u> of has the sequence of SEQ ID NO:1.
- 15. (Original) A method of down regulating the expression of RI<sub>0</sub>/PKA gene in a cell comprising providing to the cell the oligoribonucleotide of claim 1 in an amount effective to down-regulate the expression of the RI<sub>0</sub>/PKA gene.
- 16. (currently amended) The method of claim 15, wherein the sequence of the oligoribonucleotide <u>consists of a sequence</u> is selected from the group consisting of SEQ ID NO:1, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:22 and combinations thereof.

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17. (Original) The method of claim 16, wherein the sequence of the oligoribonucleotide is SEQ ID NO:1.

- 18. (Original) A method of reducing the growth of cells which overexpress the RI<sub>α</sub>/PKA gene comprising providing to the cells a composition comprising the oligoribonucleotide of claim 1 in an amount effective to reduce the growth of the cells.
- 19. (currently amended) The method of claim 18, wherein the sequence of the oligoribonucleotide is consists of a sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19 and SEQ ID NO:22.
- 20. (Original) The method of claim 19, wherein the sequence of the oligoribonucleotide is SEQ ID NO:1.
- 21. (Original) A method of reducing the growth of cancer cells in an individual comprising administering to the individual a growth inhibiting regimen of the composition of claim 9.
- 22. (currently amended) The method of claim 21, wherein the sequence of the oligoribonucleotide in the composition is consists of a sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:22 and combinations thereof.
- 23. (Original) The method of claim 22, wherein the sequence of the oligoribonucleotide is SEQ ID NO:1.

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- 24. (Original) The method of claim 21, wherein the administration of the composition is combined with a treatment selected from the group consisting of surgery, radiation, chemotherapy and immunotherapy.
- 25. (Original) The method of claim 21, wherein the composition is administered via a route selected from the group consisting of intratumoral, intravenous, intraperitoneal, intramuscular, intranasal, oral, topical and rectal.
- 26. (Withdrawn) A method for detecting the overexpression of the RI<sub>0</sub>/PKA gene in a test sample comprising the steps of:
  - a) isolating nucleic acids from the test sample and a control sample;
- b) contacting the nucleic acids from the test sample and the control sample with the oligoribonucleotide of claim 1 or a complement thereof; and
- c) comparing hybridization of the nucleic acids from the test and the control sample to the oligoribonucleotide of claim 1 or the complement thereof,

wherein an increase in the hybridization in the test sample is indicative of the overexpression of the  $RI_{\alpha}/PKA$  gene is the test sample.

- 27. (Withdrawn) The method of claim 26, wherein the nucleic acids are mRNA.
- 28. (Withdrawn) The method of claim 26, wherein the nucleic acids are reverse transcribed from mRNA.
- 30. (Withdrawn) The method of claim 26, wherein the oligoribonucleotide is selected from the group consisting of SEQ ID NO:1, SEQ ID NO:10, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19 and SEQ ID NO:22.
- 31. (Withdrawn) The method of claim 30, wherein the oligonucleotide has a sequence of SEQ ID NO:1.

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32. (currently amended) An oligoribonucleotide <u>consisting of 20 of from 18 to 30</u> nucleotides comprising:

a contiguous sequence of SEQ ID NO:20 or a sequence which has one-base mismatch with SEQ ID NO:20,

wherein the ribose residue of at least one nucleotide is protected at the 2'-O- position by 2, 4-dinitrophenyl (DNP) and wherein the oligoribonucleotide is capable of down-regulating the expression of the  $RI_{\alpha}$  subunit of protein kinase A.

- 33. (currently amended) The oligoribonucleotide of claim 32, which has consists of a sequence of SEQ ID NO:20.
- 34. (Original) A composition comprising the oligoribonucleotide of claim 32.